



# Denbigh High School Aviation Academy

*JCOTS Presentation  
September 19, 2017*

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# Today's Agenda...

- Overview
- Career Readiness
- Partnerships





# Overview



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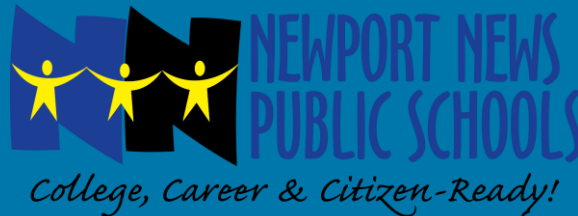
# What is Denbigh's Aviation Academy?

- Four year magnet program that develops and enhances the interests and skills of students
- Focuses on STEM, Aviation and Aerospace
- Airport campus
- Project-based learning
- 320 students



# Our Mission

*Ensure that all graduates are  
College, Career and Citizen Ready!*



# Goals

- Gain a deeper understanding of the skills and knowledge incorporated in their fields of study
- Benefit from specialized, project-based courses
- Receive opportunities to earn industry certifications
- Profit from opportunities for internships, mentorships, and job shadowing



# Aviation Program Strands

- Aviation Technology
- Flight Operations
- Aerospace Engineering
- Aviation Security and Safety



# Industry Certifications Offered

- Workplace Readiness Skills Assessment for the Commonwealth
- FAA Private Pilot Written Test
- Project Lead the Way End of Course Tests
  - Introduction to Engineering Design
  - Digital Electronics





# *Snapshot of our Graduates*

## *Class of 2017*

- 43% four year college
- 24% two year college
- 18% full-time employment
- 7% military
- 8% trade/technical school





# Career Readiness



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# Creating A Qualified Workforce

- Recognize the importance of Executive Order #23 (Establishing the New Virginia Economy Workforce Initiative)
- Boeing Pilot & Technician Market Outlook Report 2016-2035
  - 2 million new aviation personnel
  - 617,000 commercial pilots
  - 679,000 maintenance technicians
  - 814,000 cabin crew







# Connecting Curriculum and Real Life Experiences



# Work-Based Learning Experiences

## Current Students

- Field Trips
- Guest Speakers
- Mentorships
- Job Shadowing & Internships
- Summer Program: Linking Innovation and Flight Technology (LIFT)
- Competitive Events



## Middle & Elementary Students

- Career Days
- Special Events
  - NNPS/CNU STEM Day
  - Engineering Design Challenge
- Tours of Aviation Academy



# Partnerships



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# Our Partners Are Committed To Excellence





# Awards & Recognitions

- VDOE CTE *Creating Excellence Award for Secondary Business & Industry Partnerships* (Region II & State)
- Awarded the opportunity to build RV-12 plane with the Eagle's Nest Foundation
- Society of Manufacturing Engineers Education Foundation— PRIME School
- Twice named Top High School in the Virginia Living Magazine



# *On the Horizon...*

- New courses for 2018-19
  - Aerospace Engineering
  - Engineering Design & Development
  - Public Safety I & II
- Vocational Laboratory Pilot
  - Focused on Augmented & Virtual Reality





Thank you for your  
continued support!

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